

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P601335

Luminaire Tested: 14CGSB-60-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-60-L835
Description: 1x4 CGSB AT 6000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

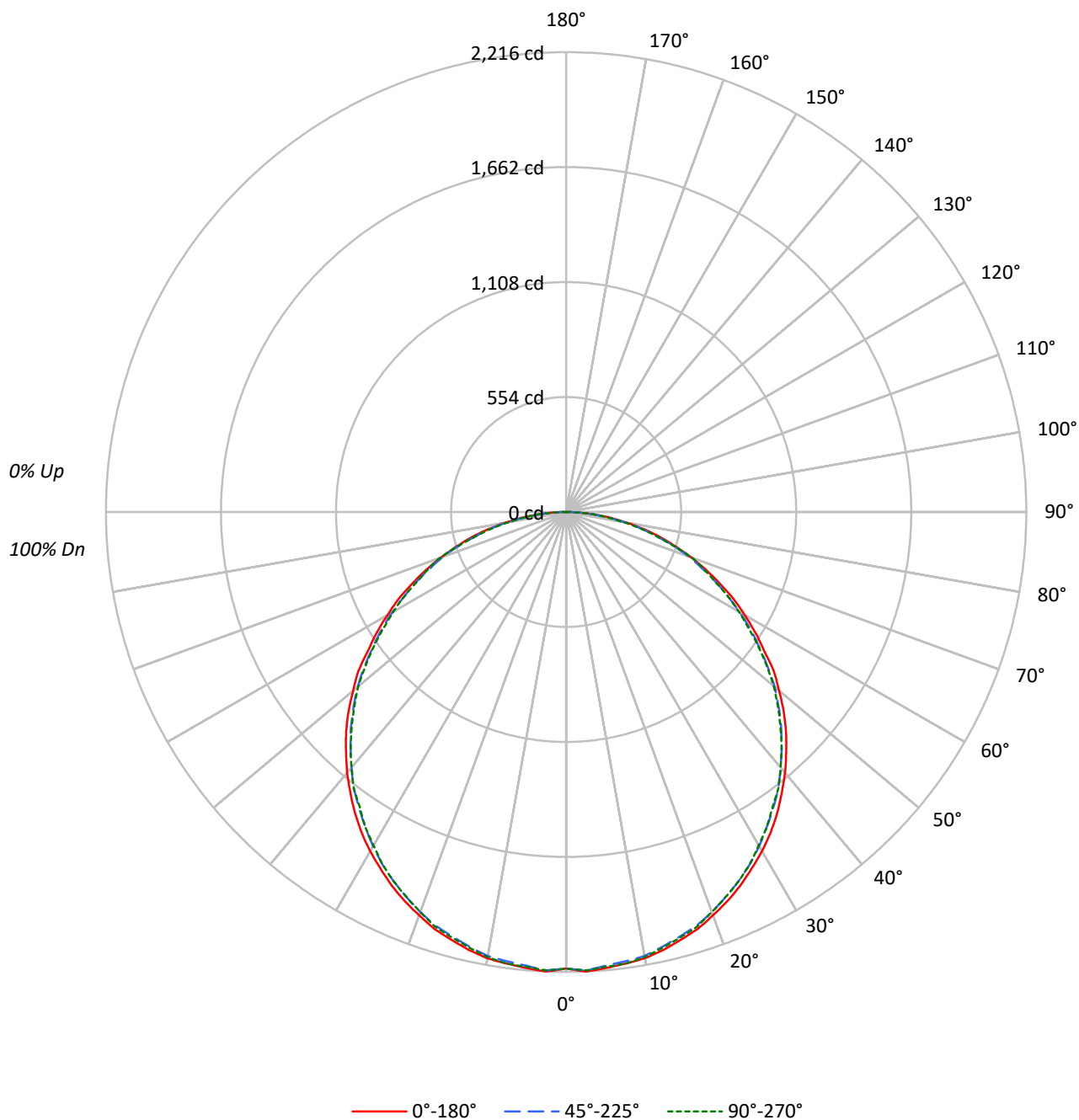
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6386.4 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	33	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5920	5920	5920
5°	5957	5927	5942
10°	5966	5936	5951
15°	5945	5899	5914
20°	5922	5875	5875
25°	5896	5831	5831
30°	5864	5778	5762
35°	5821	5713	5695
40°	5762	5646	5646
45°	5699	5574	5553
50°	5604	5489	5466
55°	5456	5327	5302
60°	5344	5196	5167
65°	5205	5065	5030
70°	5050	4964	5093
75°	4905	4677	4677
80°	4590	4505	4336
85°	4233	4066	4066

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5699 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	3.3
10°-20°	599.6	9.4
20°-30°	907.2	14.2
30°-40°	1093.2	17.1
40°-50°	1135.1	17.8
50°-60°	1022.2	16.0
60°-70°	789.9	12.4
70°-80°	481.3	7.5
80°-90°	148.8	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1716.0	26.9
0°-40°	2809.1	44.0
0°-60°	4966.5	77.8
0°-90°	6386.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6386.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2205	2200	2194	2194	2200	210
15°	2134	2128	2118	2118	2123	603
25°	1986	1980	1964	1958	1964	915
35°	1772	1761	1739	1734	1734	1108
45°	1498	1487	1465	1459	1459	1154
55°	1163	1152	1136	1130	1130	1045
65°	817	801	795	784	790	810
75°	472	455	450	444	450	496
85°	137	137	132	126	132	155
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2199.8	2199.8	2199.8	2199.8	2199.8
2.5°	2216.2	2216.2	2210.7	2210.7	2210.7
5°	2205.2	2199.8	2194.3	2194.3	2199.8
7.5°	2194.3	2194.3	2183.3	2183.3	2194.3
10°	2183.3	2177.8	2172.3	2172.3	2177.8
12.5°	2161.4	2155.9	2144.9	2144.9	2150.4
15°	2133.9	2128.4	2117.5	2117.5	2123.0
17.5°	2106.5	2101.0	2090.0	2090.0	2095.5
20°	2068.1	2062.6	2051.6	2046.2	2051.6
22.5°	2029.7	2024.2	2007.8	2002.3	2007.8
25°	1985.8	1980.3	1963.9	1958.4	1963.9
27.5°	1936.4	1931.0	1914.5	1909.0	1914.5
30°	1887.1	1876.1	1859.6	1848.7	1854.2
32.5°	1832.2	1821.2	1799.3	1793.8	1799.3
35°	1771.9	1760.9	1739.0	1733.5	1733.5
37.5°	1706.0	1700.6	1678.6	1673.1	1678.6
40°	1640.2	1629.2	1607.3	1601.8	1607.3
42.5°	1568.9	1557.9	1536.0	1536.0	1536.0
45°	1497.6	1486.6	1464.7	1459.2	1459.2
47.5°	1420.8	1409.8	1387.9	1382.4	1382.4
50°	1338.5	1327.5	1311.1	1305.6	1305.6
52.5°	1261.7	1245.3	1223.3	1217.8	1217.8
55°	1163.0	1152.0	1135.5	1130.1	1130.1
57.5°	1080.7	1064.2	1053.3	1042.3	1042.3
60°	992.9	976.5	965.5	960.0	960.0
62.5°	910.6	888.7	877.7	872.2	877.7
65°	817.4	800.9	795.4	784.5	789.9
67.5°	729.6	713.1	707.7	707.7	718.6
70°	641.8	625.4	630.9	614.4	647.3
72.5°	554.1	543.1	543.1	526.6	543.1
75°	471.8	455.3	449.8	444.3	449.8
77.5°	384.0	378.5	373.0	362.1	367.5
80°	296.2	307.2	290.7	274.3	279.8
82.5°	219.4	213.9	203.0	197.5	203.0
85°	137.1	137.1	131.7	126.2	131.7
87.5°	65.8	65.8	60.3	60.3	65.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)